	Application No.	Applicant(s)	
Notice of Allowability	10/801,525	KIM ET AL.	
	Examiner	Art Unit	
	Hoa Q. Pham	2877	
The MAILING DATE of this communication appears on the cover sheet with the correspondence address All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS. This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.			
1. This communication is responsive to			
2. X The allowed claim(s) is/are <u>1-24</u> .			
 3. Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a)			
4. A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.			
5. CORRECTED DRAWINGS (as "replacement sheets") must be submitted.			
(a) 🔲 including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached			
1) hereto or 2) to Paper No./Mail Date			
(b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date			
Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).			
6. DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.			
Attachment(s)	5 - - 10 - 15 - 15 - 15 - 15 - 15 - 15 - 15	(DTO 450)	
1. Notice of References Cited (PTO-892)		Patent Application (PTO-152)	
2. Notice of Draftperson's Patent Drawing Review (PTO-948)	 Interview Summary Paper No./Mail Da 		
3. M Information Disclosure Statements (PTO-1449 or PTO/SB/0 Paper No./Mail Date 1/24/05			
Examiner's Comment Regarding Requirement for Deposit of Biological Material		8. Examiner's Statement of Reasons for Allowance	
	9.		

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DETAILED ACTION

1. Receipt is acknowledged of papers submitted under 35 U.S.C. 119(a)-(d), which papers have been placed of record in the file.

Drawings

2. The drawings filed on 3/12/04 have been approved.

REASONS FOR ALLOWANCE

1. The following is an examiner's statement of reasons for allowance:

There was no prior art found by the examiner that suggested modification or combination with the cited art so as to satisfy the combination of all the limitations in claims 1, 8, and 16.

As to claim 1, the prior art of record, taken alone or in combination, fails to disclose or render limitations "sensing a second light reflected from the substrate using at least two focus values to form image information corresponding to the at least two focus values", "for each of the at least two focus values, obtaining a gain value for the corresponding image information" and "detecting defects on the substrate with the focus set to one of the at least two focus values that corresponding to a minimum gain value", in combination with the rest of the limitations of claim 1.

As to claim 8, the prior art of record, taken alone or in combination, fails to disclose or render the interrelationships between the "two focus values", "the two gain

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values", "the first image information", "the second image information", in combination with the rest of the limitations of claim 8.

As to claim 16, the prior art of record, taken alone or in combination, fails to disclose or render limitations "sensing a second light reflected from the substrate and forming image information having a gain value", "analyzing a relationship between the gain value and a focus used to obtain the image information", "setting an optimized focus to the focus corresponding to a minimum gain value", and "determining the defects using the image information obtained from the optimized focus", in combination with the rest of the limitations of claim 16.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Hoa Q. Pham whose telephone number is (571) 272-2426. The examiner can normally be reached on 7:30AM to 6 PM, Monday through Thursday.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Gregory J. Toatley, Jr. can be reached on (571) 272-2800 ext. 77. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Hoa Q. Pham
Primary Examiner
Art Unit 2877

HP March 31, 2006